

# Talcott Engineering DESIGN, PLLC.

1 GARDNERTOWN ROAD ~ NEWBURGH, NY 12550  
(845)569-8400 ~ (fax) (845)569-4583

April 16, 2020

Mr. Bruce Terwilliger  
Town of Highlands Building Department  
254 Main Street  
Highland Falls, New York 10928

Re: Tonneson Septic Certification  
Hemlock Street  
Town of Highlands, NY  
S/B/L: 11-1-1.52  
Job #19173-TNN

Dear Bruce,

The on-site septic system on the above reference lot has been designed and installed in accordance with the New York State Public Health Law and all promulgated thereunder. This letter services as my certification of the above

Should you have any questions, please feel free to contact me at the number listed above.



Very truly yours,

A handwritten signature in black ink, appearing to read "Charles T. Brown".

Charles T. Brown, PE  
Lic. #065996  
Talcott Engineering Design  
President

Pc; Dave Tonneson, Builder



# Talcott Engineering

## DESIGN, PLLC.

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November 22, 2019

Mr. Bruce Terwilliger  
Town of Highlands Building Department  
254 Main Street  
Highland Falls, New York 10928

RE: Email from Deborah Kopald  
Tonneson Plans  
Hemlock Street  
Town of Highlands, NY  
S/B/L: 11-1-1.52  
Job #19173-TNN

Dear Bruce,

I have reviewed the above referenced October 24, 2019 email. The following is based on my review;

- 1) "Site Plan" and "Plot Plan" are interchangeable. In fact the building permit application for this project requests a "Plot Plan". The proposed development disturbs less than one acre, therefore, a large scale sediment and erosion control plan is not required. It should be noted that silt fence was in place at the times of our inspections during construction. Note 9 of our septic system general notes stipulate that surface water be diverted away from the septic system.
- 2) Structural Engineers are Civil Engineers. Civil engineering includes structural engineering and sanitary disposal design as well as land development engineering, drainage engineering, highway and road engineering and utility engineering. As a historical note; when the engineering profession was first created, all engineering was categorized as Civil Engineering.
- 3) Minimum pitches are shown on the "Typical Plan View". Plans have field generated topography.
- 4) Silt fence has been shown on plans, below the septic system (see legend).
- 5) Soil testing was done in the septic field and reserve area. I have added locations to plans.
- 6) No perc test failed. Both perc tests were between 1 and 10 minutes.
- 7) Deep tests within 30' of each other are often the same or similar.
- 8) There is no such thing as "Certified fill" in Orange County. My firm percs fill in place as a component of my certification of the system As-built. Color has nothing to do with acceptability of fill for septic systems. The fill we recently used for the septic repair for



Villa Italia Restaurant is sandy loam, which is the color of beach sand. Fill material is permitted to be taken from other areas of the site, provided that it passes perc tests.

9) Deep tests done and listed on plans **DO** show what is beneath the trenches.

10) (see response above).

11) In Orange County, only "Alternative Surface Onsite Wastewater Treatment Systems" (see chapter 10 of the NYS Dept. of Health Design Handbook 2012) and/or systems that don't meet required separations (see figure 1 of the above "Design Handbook") are reviewed by the Orange County Health for individual lots.

Should you have any questions, please feel free to contact me at the number listed above.

Very truly yours,

Charles T. Brown, PE  
Lic. #065996  
Talcott Engineering Design  
President

Pc; Dave Tonneson, Builder  
Martin A. Cohen, Esq.